

ABSTRACT

A technology for preventing degradation of a hydrogen permeable metal layer in a fuel cell 210 is provided. A fuel cell system 200 including
5 a fuel cell 210 with an anode which has the hydrogen permeable metal layer comprises a fuel cell controller 230 for controlling the operation status of the fuel cell system 200, a temperature parameter acquisition section for acquiring a temperature parameter of the hydrogen permeable metal layer, and a hydrogen permeable metal layer degradation
10 prevention section which reduces the hydrogen partial pressure in an anode channel 212 for supplying fuel gas to the anode. If a temperature of the hydrogen permeable metal layer represented by the temperature parameter deviates from a specified temperature range, the fuel cell controller 230 cause the hydrogen permeable metal layer degradation
15 prevention section to operate for preventing degradation of the hydrogen permeable metal layer.